Prairie View A&M University

(A Member of the Texas A&M University System)



Cajetan M. Akujuobi, M.B.A., Ph.D.E.E.

Vice President for Research and Dean, Graduate Studies







Prairie View A&M university

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- Prairie View A&M University, an "institution of the first class", is the second oldest public university in Texas (1876)
- Land-Grant (1890)
- Member of Texas A&M University System
- Offers baccalaureate, master's and doctoral degree programs through eight colleges and schools



Colleges and Schools

College of Agriculture and Human Sciences

Agriculture, Nutrition, & Human Ecology Cooperative Extension Program Cooperative Agricultural Research Center Dietetics Internship Program Master of Human Science

College of Arts and Sciences

Biology Chemistry

Social Work, Behavioral & Political Science Languages and Communications

Mathematics

Department of Music and Theatre

ROTC – Army ROTC – Navy Solar Observatory

College of Juvenile Justice and Psychology – Ph.D Criminal Justice

Criminal Justice
Criminal Justice/Specialization in Juvenile Justice
Psychology

Juvenile Justice
Juvenile Justice Forensic Psychology
Juvenile Justice

College of Business

Accounting, Finance, and MIS Management and Marketing Master of Business Administration Master of Science and Accounting

Clinical Adolescent Psychology

College of Engineering

Chemical Engineering
Civil & Environmental Engineering
Computer Science
Electrical and Computer Engineering - Ph.D.
Engineering Technology
Mechanical Engineering

College of Education – Ph.D.

Alternative Teacher Certification Curriculum and Instruction Educational Leadership and Counseling Health and Human Performance

College of Nursing

B.S. in Nursing (BSN) Basic Program LVN-BSN Program RN-BSN Program M.S. in Nursing (MSN)

School of Architecture

Bachelor of Science in Architecture Bachelor of Science in Construction Science Master of Architecture Master of Science in Community Development

RESEARCH AT Pvamu pantherLAND



2010-2014 Research PARTNERS AT A GLANCE

- Federal \$112,886,486
- > State of Texas \$42,013,961
- ➤ Public Sector \$8,215,196
- ➤ Private Sector \$3,340,568







NASA Grants and Contracts

Prime Sponsor	Start Date	End Date	Sponsor	PI	Title
SA-Earth Science Technology Office	1-Aug-15	30-Sep-15	L-3 Communication	Shield Lin	Computer Workstations to L-3 Software Simulation Laboratory
NASA-Earth Science Technology Office	1-Aug-15	30-Sep-15	L-3 Communication	Shield Lin	Additional Lab Equipment to L-3 Software Simulation Laboratory
NASA-Earth Science Technology Office	1-May-15	30-Sep-19	L-3 Communication	Shield Lin	L-3 Simulation Software Initiative (SSI) Student Internships
NASA-Earth Science Technology Office	17-Jun-13	31-Jul-15	United Negro College Fund Special Programs	Richard Wilkins	International Space Station (ISS) University Research-1 (UR-1) Project
NASA-Johnson Space Center	1-0ct-12	20-Sep-17	L-3 Communication	Shield Lin	L-3 Simulation Software Fy 12-13
NASA-Johnson Space Center	1-Sep-11	31-Aug-13	University of Texas at Austin	Shield Lin	Texas Space Grant Space Exploration Software Simulation Curriculum
NASA-Johnson Space Center	6-Dec-11	31-Aug-16	United Negro College Fund Special Programs	Abburi Kumar	Development of Technologies for Elucidation and Mitigation of Bone Loss In Microgravity
NASA-Johnson Space Center	1-Mar-11	30-Sep-12	L-3 Communication	Shield Lin	L-3 Simulation Software
NASA-Stennis Space Center	1-Sep-14	31-Dec-15	Emory University	Huichen Wang	Mechanisms underlying the risk of HZE particle-induced solid tumor development
NASA	1-Jan-09	30-Sep-16	Lockheed Martin Space Operation	Kendall Harris	LMSO Storefron Property
NASA-Stennis Space Center	20-Sep-14	19-Mar-16	NASA-Stennis Space Center	Huichen Wang	DNA Repair and Protection from Apoptosis in Neuronal Progenitors Exposed to Space Radiation

PVAMU RESEARCH CENTERS/INSTITUTES

- Cooperative Agricultural Research Center (CARC)
- Center of Excellence in Research and Education for Big Military Data Intelligence (CREDIT)
- International Goat Research Center
- Community for Urban and Rural Enhancement Services (CURES)
- Texas Institute for the Preservation of History and Culture (TIPHC)
- Prairie View Solar Observatory (PVSO)
- **❖** Radiation Institute for Science and Engineering (RaISE)
- Small Business Development Center (SBDC)

- Center for International Business Education (CIBE)
- Center for Applied Radiation Research (CARR)
- The Center for Radiation Engineering and Science for Space Exploration (CRESSE)
- The Center for Digital Battlefield Communications (CEBCOM)
- The Center for Energy and Environmental Sustainability (CEES)
- The Center of Excellence for Communication Systems Technology Research (CECSTR)



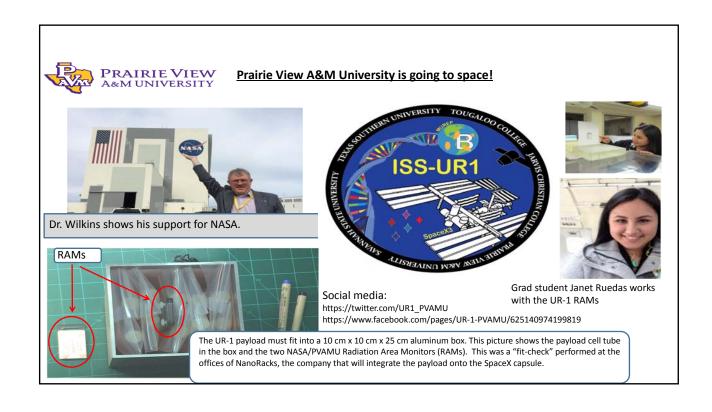
NASA Center for Radiation Engineering and Science for Space Exploration (CRESSE)



 Funded by the National Aeronautics and Space Administration (NASA)

Director: Dr. Wilkins





Thermal Science Research Center (TSRC)





- Funded by Department of Energy, Nuclear Regulatory Commission, Sandia National Laboratory
- Studies mechanisms and quantitative factors controlling high heat flux removal in engineering components
- Modeling and Simulations
- U.S. Patent (N0. 6,824,305)
- Director: Dr. Ronald Boyd



Prairie View Solar Observatory





- NASA/Marshall Space Flight Center, Nuclear Regulatory Commission
- Monitors Solar Flares
- Fusion Plasma Research Project
- First Ground-based Solar Research Facility in the State of Texas
- Director: Dr. Huang



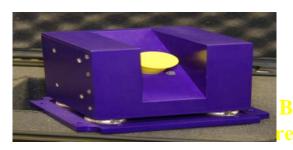
Project Monitoring Team at JSC Houston with Columbia in SpacE

- Real-time DSP Solutions performance in space.
- The concept of great-distance distributed signal analysis verified.
- Providing answers instead of raw data from space.



STS-107







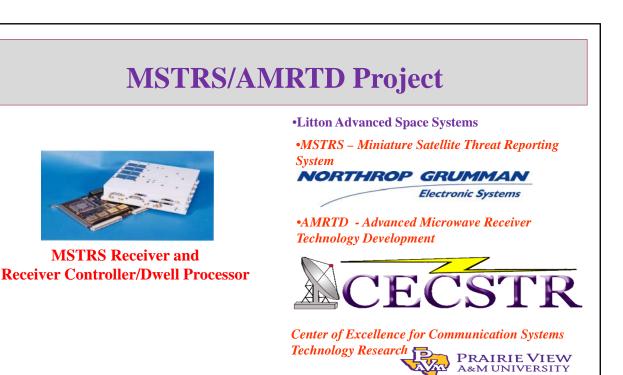
First Prairie View A&M University Payload Launched into Deeper Space on December 3, 2014

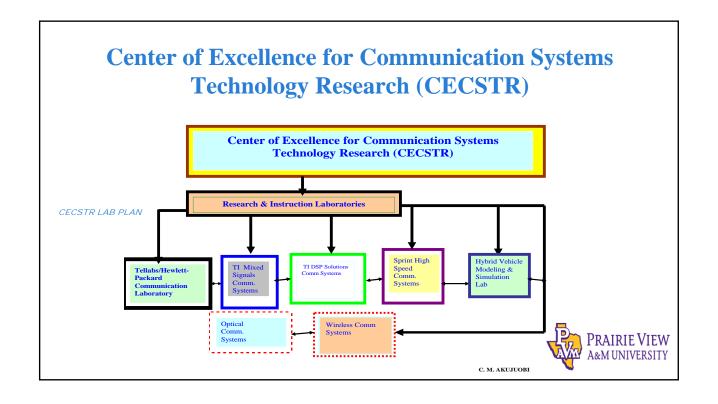
Sponsored by the Chancellor's Research Initiative Dr. John Sharp, Chancellor , Texas A&M University System

Radiation Institute for Science and Engineering (RaISE)
Dr. P. B. Saganti, Principal Investigator and Research Director
Dr. F. A. Cucinotta, Chief Scientist and Executive Professor

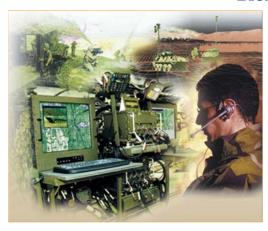








Center of Excellence for Battlefield Communications Research



Funded by the DoD

- Goal is to develop a novel battlefield communications network architecture that supports multi-service applications (voice, data, and video) using seamless IP
- Ad hoc wireless networking



PVAMU IceP operational diagram

- Innovation
- Commercialization
- Entrepreneurship
- SPECIFIC BENEFITS OF COLLABORATIVE INDUSTRY PARTNERSHIPS
 - Reinforce
 - Niche market
 - Research opportunities



University contact

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